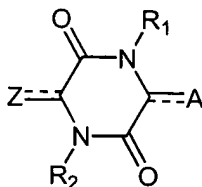


ABSTRACT

This invention relates to a method for treating an angiogenesis-related disease. The method includes administering to a subject in need thereof an effective amount of a piperazinedione compound having the formula:



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In the above formula, each of --- and = , independently, is a single bond or a double bond; A is H or $\text{CH}(\text{R}^a\text{R}^b)$ when --- is a single bond, or $\text{C}(\text{R}^a\text{R}^b)$ when = is a double bond; Z is $\text{CH}(\text{R}^c\text{R}^d)$ when --- is a single bond, or $\text{C}(\text{R}^c\text{R}^d)$ when = is a double bond; each of R_1 and R_2 , independently, is H, $\text{C}(\text{O})\text{R}^e$, $\text{C}(\text{O})\text{OR}^e$, $\text{C}(\text{O})\text{NR}^e\text{R}^f$, or SO_2R^e ; and each of R^a , R^b , R^c , R^d , R^e , and R^f , independently, is H, $\text{C}_1\text{-C}_6$ alkyl, aryl, heteroaryl, $\text{C}_3\text{-C}_8$ cycloalkyl, or $\text{C}_3\text{-C}_8$ heterocycloalkyl; or R^a and R^b taken together are $\text{C}_3\text{-C}_8$ cycloalkyl, $\text{C}_3\text{-C}_8$ heterocycloalkyl, aryl, or heteroaryl; or R_1 and R^a or R_1 and R^b taken together are $\text{C}_3\text{-C}_8$ cycloalkyl, $\text{C}_3\text{-C}_8$ heterocycloalkyl, aryl, or heteroaryl; provided that one of R^c and R^d is aryl or heteroaryl.

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